

JUL 18 2006

Application No.: 10/713174

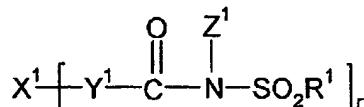
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Amendments to the Claims:

The following Listing of Claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently amended) A compound of Formula I:



I

wherein

X^1 is a substrate-reactive functional group selected from a carboxy, halocarbonyl, halocarbonyloxy, cyano, hydroxy, mercapto, isocyanato, halosilyl, alkoxysilyl, acyloxysilyl, azido, aziridinyl, tertiary amino, primary aromatic amino, secondary aromatic amino, disulfide, alkyl disulfide, benzotriazolyl, phosphene, phosphoroamido, or phosphato;

Y^1 is a divalent group comprising at least one heteroalkylene having an oxy group or a $-NR^d-$ group, at least one alkylene, or combinations thereof, wherein Y^1 can optionally further comprise an arylene, carbonyl, carbonyloxy, carbonylimino, oxy, $-NR^d-$ where R^d is hydrogen or alkyl, or combinations thereof;

Z^1 is an alkyl, aryl, or $-(CO)R^a$ wherein R^a together with R^1 and groups to which they are attached form a five membered heterocyclic group having a nitrogen heteroatom and a sulfur heteroatom, wherein said heterocyclic group can be fused to an optional benzene ring;

R^1 is an alkyl, fluoroalkyl, chloroalkyl, aryl, NR^bR^c wherein R^b and R^c are each an alkyl group, or R^1 together with R^a and the groups to which they are attached form the five membered heterocyclic group that can be used to the optional benzene ring;

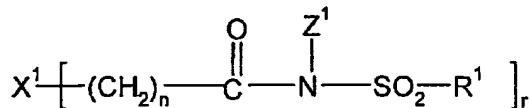
r is equal to 1 when X^1 is a monovalent group or equal to 2 when X^1 is a divalent group; and

said compound is unsubstituted or substituted with a halo, alkyl, alkoxy, or combinations thereof.

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2. (Original) The compound of claim 1, wherein the compound has a formula

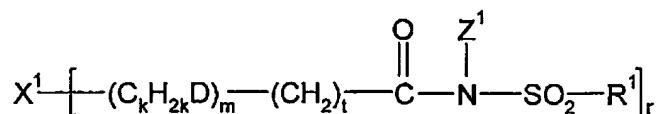


wherein

n is an integer of 1 to 100; and

said compound is unsubstituted or substituted with a halo, alkyl, alkoxy, or combinations thereof.

3. (Previously presented) The compound of claim 1, wherein the compound has a formula



wherein

D is oxygen or NH;

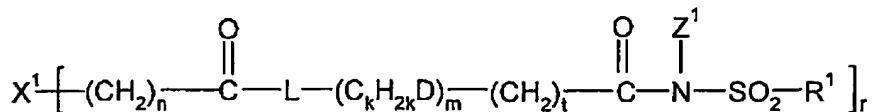
t is an integer of 0 to 12;

k is an integer of 2 to 4;

m is an integer of 1 to 200; and

said compound is unsubstituted or substituted with a halo, alkyl, alkoxy, or combinations thereof.

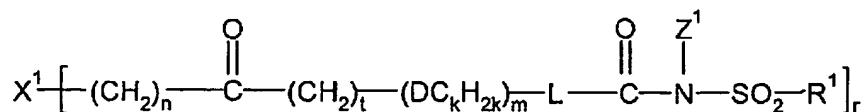
4. (Previously presented) The compound of claim 1, wherein the compound has a formula



or

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wherein

D is oxygen or NH;

n is an integer of 1 to 100;

m is an integer of 1 to 200;

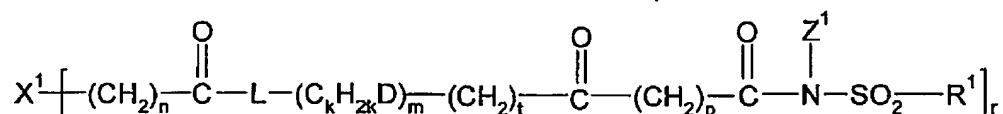
t is an integer of 0 to 12;

k is an integer of 2 to 4;

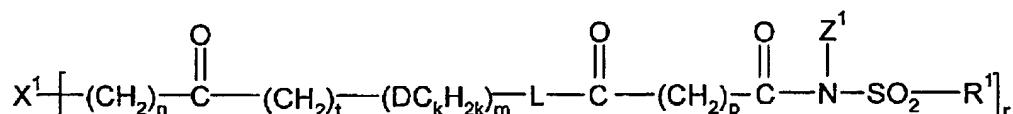
L is oxygen or NR^d where R^d is hydrogen or alkyl; and

said compound is unsubstituted or substituted with a halo, alkyl, alkoxy, or combinations thereof.

5. (Previously presented) The compound of claim 1, wherein the compound is of formula



or



wherein

D is oxygen or NH;

n is an integer of 1 to 100;

m is an integer of 1 to 200;

t is an integer of 0 to 12;

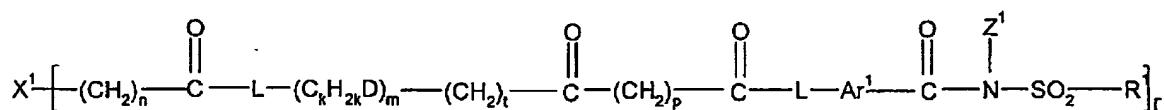
k is an integer of 2 to 4;

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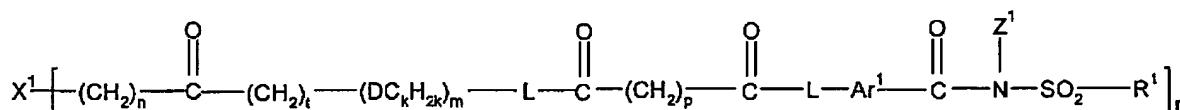
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p is an integer of 1 to 10;
 L is oxygen or NR^d where R^d is hydrogen or alkyl; and
 said compound is unsubstituted or substituted with a halo, alkyl, alkoxy, or combinations thereof.

6. (Previously presented) The compound of claim 1, wherein the compound is of formula



or



wherein

D is oxygen or NH;
 n is an integer of 1 to 100;
 m is an integer of 1 to 200;
 t is an integer of 0 to 12;
 k is an integer of 2 to 4;
 p is an integer of 1 to 10;
 L is oxygen or NR^d where R^d is hydrogen or alkyl;
 Ar¹ is an arylene; and
 said compound is unsubstituted or substituted with a halo, alkyl, alkoxy, or combinations thereof.

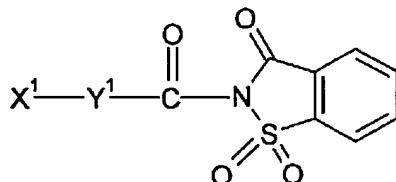
7. (Original) The compound of claim 1, wherein Z¹ is a C₁₋₁₀ alkyl and R¹ is a C₁₋₁₀ fluoroalkyl.

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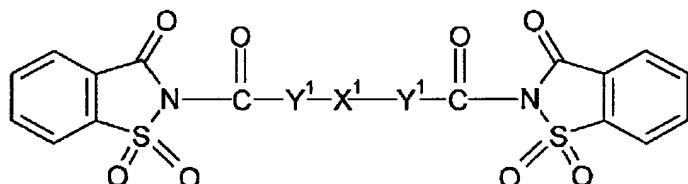
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8. (Original) The compound of claim 1, wherein Z^1 is an aryl and R^1 is a C_{1-10} fluoroalkyl.

9. (Original) The compound of claim 1, where the compound is of formula

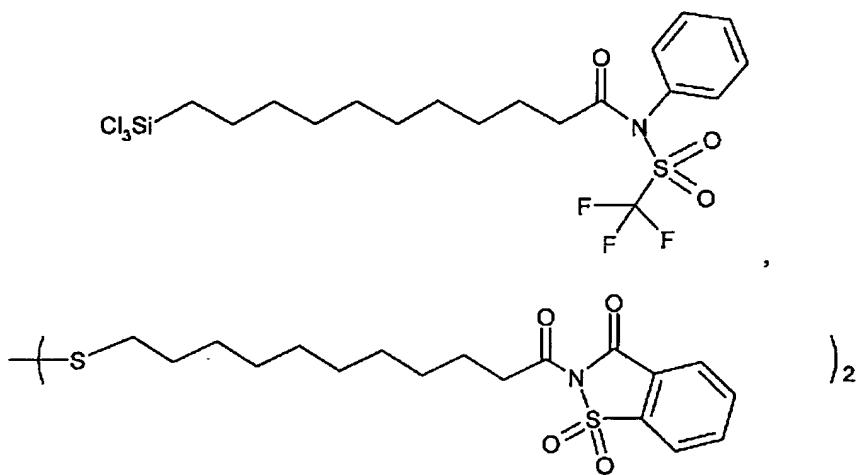


where X^1 is monovalent or



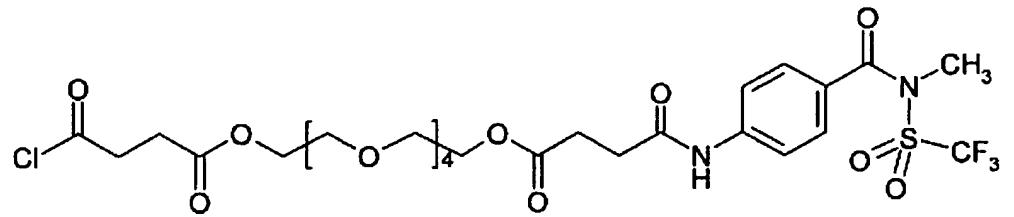
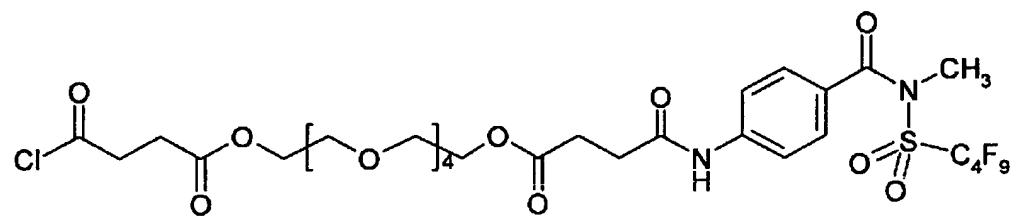
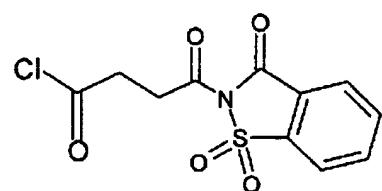
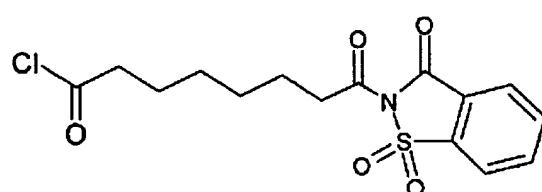
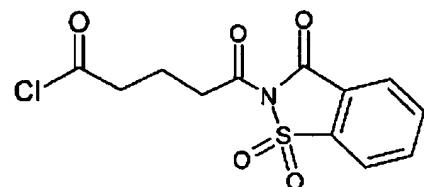
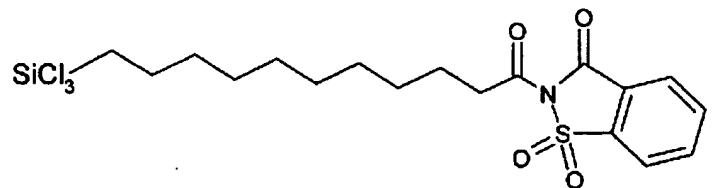
where X^1 is divalent and said compound is unsubstituted or substituted with a halo, alkyl, alkoxy, or combinations thereof.

10. (Original) The compound of claim 1, wherein the compound is



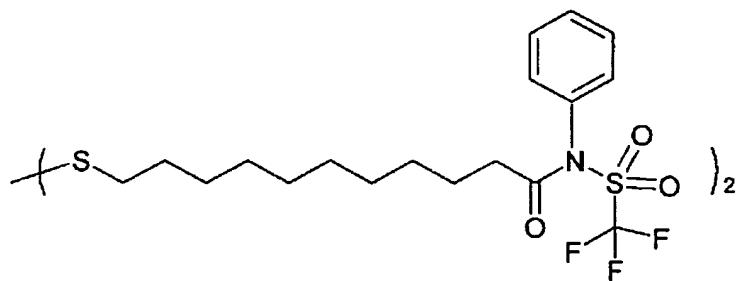
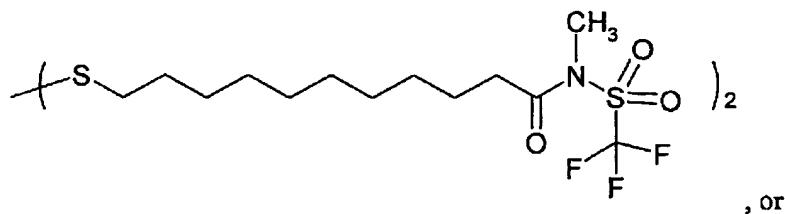
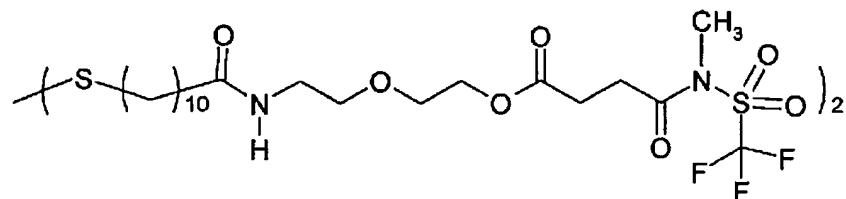
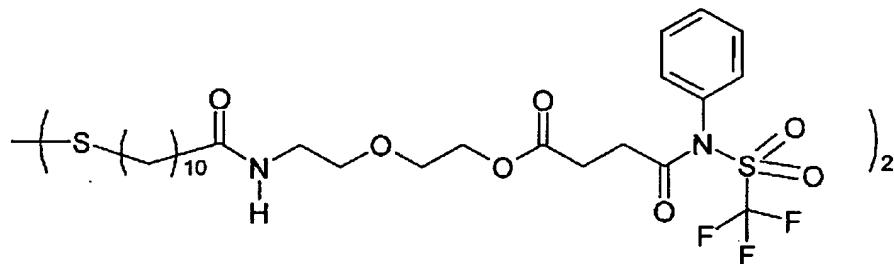
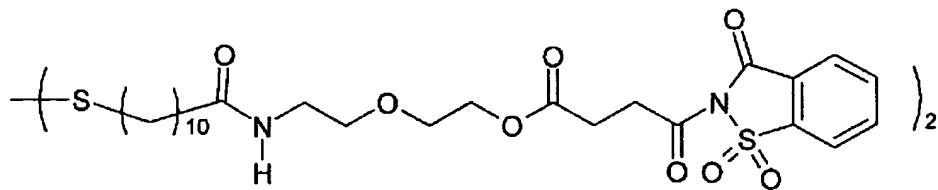
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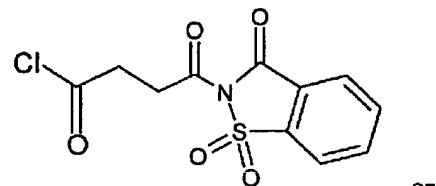
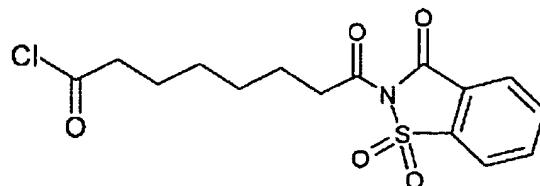
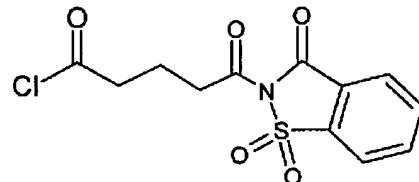
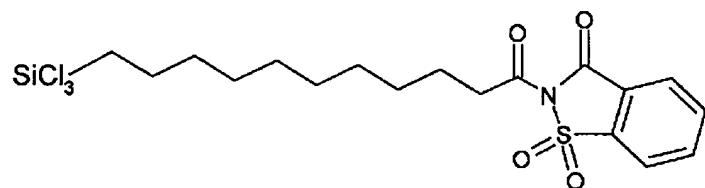
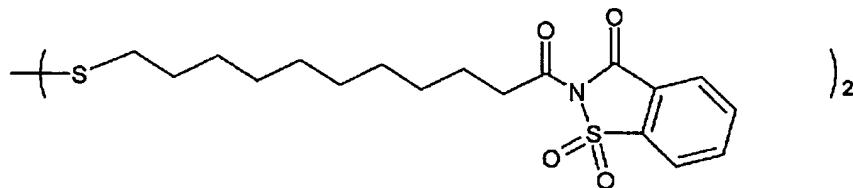


said compound being unsubstituted or substituted with a halo, alkyl, alkoxy, or combinations thereof.

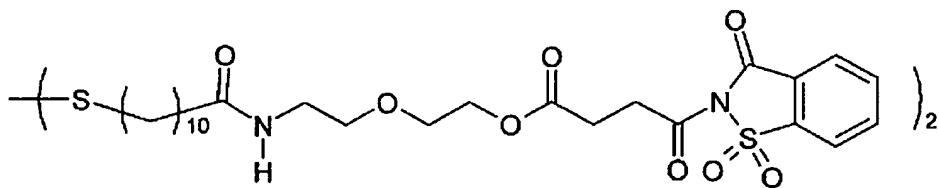
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11. (Original) The compound of claim 1, wherein the compound is



, or

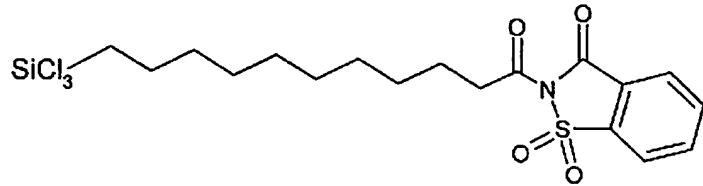


said compound being unsubstituted or substituted with a halo, alkyl, alkoxy, or combinations thereof.

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12. (Original) The compound of claim 1, wherein the compound is



13. (Previously presented) The compound of claim 1, wherein Y^1 comprises at least one heteroalkylene and at least one alkylene.

14. (Previously presented) The compound of claim 1, wherein Y¹ comprises at least one alkylene.

15. (Previously presented) The compound of claim 1, wherein Y^1 comprises at least one heteroalkylene having an oxy group or a $-NR^d-$ group.

16. (Previously presented) The compound of claim 1, wherein X^1 is halosilyl, alkoxysilyl, or acloxsilyl.

17. (Previously presented) The compound of claim 1, wherein X^1 is disulfide or alkyl disulfide.

18. (Previously presented) The compound of claim 1, wherein Z^1 is $-(CO)R^6$ wherein R^6 together with R^1 and groups to which they are attached form a five membered heterocyclic group that is optionally fused to a benzene ring.

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